

Reporting Title: Supersaturation, 24 HR, Home Kit, U
Performing Location: Rochester

Ordering Guidance:

Necessary Information:

- 1. 24-Hour volume in milliliters is required.
- 2. Patient's height in centimeters and weight in kilograms are required if patient is younger than 18 years.
- 3. Patient's street address, city, state, ZIP (postal) code, country, and home phone are required (post-office [PO] boxes are not acceptable delivery locations)

Specimen Requirements:

Patient Preparation:

- X-ray dyes and contrast media will affect uric acid test results.
- If a kidney X-ray with dye or computerized tomography (CT) scan with contrast has been performed, the patient should wait at least 24 hours before starting collection.
 - If a cholangiography (bile duct X-ray) has been performed, the patient should wait 7 days before starting collection.
 - If patient has taken tablets for a gallbladder X-ray, the patient should wait 7 days before starting collection.

Supplies: SSH24 Home Collection Kit (T921)

Collection Container/Tube: 24-hour graduated urine container with no metal cap or glued insert

Submission Container/Tube: Plastic, 60-mL urine bottle

Specimen Volume: 35 mL

Collection Instructions:

- 1. Order test each time the patient is to collect a 24-hour urine specimen at home and mail the specimen directly to Mayo Clinic Laboratories.
- 2. Order should be placed a minimum of 3 days prior to desired date of collection.
- 3. Enter patient's address information for each order created, including street address (post office [PO] boxes are not acceptable delivery locations), city, state abbreviation, zip code, country, and home phone number.
- 4. For each order, the SSH24 Home Collection kit will be mailed directly to the patient for self-collection (**delivery to a PO box will not occur**). This kit contains instructions for how to properly collect and transport the specimen after collection.

Specimen Type	Temperature	Time	Special Container
Urine	Refrigerated (preferred)	14 days	
	Frozen	14 days	
	Ambient	72 hours	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
DEMO9	HT6	Height (cm)	Plain Text	Yes
SSIN1	CS001	Patient Street Address (No PO Box)	Plain Text	Yes

DEMO9	WT6	Weight (kg)	Plain Text	Yes
SSIN1	CS002	Patient City	Plain Text	Yes
SSIN1	CS003	Patient State	Plain Text	Yes
SSIN1	CS004	Patient Zip Code	Plain Text	Yes
SSIN1	CS005	Patient Country	Plain Text	Yes
SSIN1	CS006	Patient Home Phone	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
CRU24	Creatinine, 24 HR, U	Numeric	mg/24 h	2162-6
AMU24	Ammonium, 24 HR, U	Numeric	mmol/24 h	25308-8
CAU24	Calcium, 24 HR, U	Numeric	mg/24 h	6874-2
CIT24	Citrate Excretion, 24 HR, U	Numeric	mg/24 h	6687-8
OXM24	Oxalate, 24 HR, U (mmol/24 HR)	Numeric	mmol/24 h	14862-7
OXG24	Oxalate, 24 HR, U (mg/24 HR)	Numeric	mg/24 h	2701-1
CLU24	Chloride, 24 HR, U	Numeric	mmol/24 h	2079-2
BSA1	Patient Surface Area	Numeric	1.73m(2)	8277-6
HT6	Height (cm)	Numeric	cm	3137-7
WT6	Weight (kg)	Numeric	kg	29463-7
KU24	Potassium, 24 HR, U	Numeric	mmol/24 h	2829-0
MGU24	Magnesium, 24 HR, U	Numeric	mg/24 h	24447-5
NAU24	Sodium, 24 HR, U	Numeric	mmol/24 h	2956-1
UOSMT	Osmolality, 24 HR, U	Numeric	mOsm/kg	2694-8
PCRUT	Protein Catabolic Rate, 24 HR, U	Numeric	g/24 h	93746-6
POU24	Phosphorus, 24 HR, U	Numeric	mg/24 h	2779-7
SUL24	Sulfate, 24 HR, U	Numeric	mmol/24 h	26889-6
UNU24	Urea Nitrogen, 24 HR, U	Numeric	g/24 h	3096-5
UPHT	pH, 24 HR, U	Numeric		27378-9
URC24	Uric Acid, 24 HR, U	Numeric	mg/24 h	3087-4
21060	Interpretation	Alphanumeric		69051-1
616217	Calcium Oxalate Crystal	Numeric	DG	81623-1
616218	Brushite Crystal	Numeric	DG	101825-8
616219	Hydroxyapatite Crystal	Numeric	DG	81622-3
616220	Uric Acid Crystal	Numeric	DG	101827-4
SSDUR	Collection Duration	Alphanumeric		13362-9
SSVOL	Volume	Alphanumeric		3167-4
CS001	Patient Street Address	Alphanumeric		No LOINC Needed
CS002	Patient City	Alphanumeric		No LOINC Needed
CS003	Patient State	Alphanumeric		No LOINC Needed
CS004	Patient Zip Code	Alphanumeric		No LOINC Needed
CS005	Patient Country	Alphanumeric		No LOINC Needed

CS006	Patient Home Phone	Alphanumeric		No LOINC Needed
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LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

Supplemental

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
SSIN1	Supersaturation, 24 HR,Home Kit,U 1			Yes	No
NAUT	Sodium, 24 HR, U	1	84300	Yes	Yes, (order NAU)
KUT	Potassium, 24 HR, U	1	84133	Yes	Yes, (order KUR)
CALUT	Calcium, 24 HR, U	1	82340	Yes	Yes, (order CALU)
MAGT	Magnesium, 24 HR, U	1	83735	Yes	Yes, (order MAGU)
CLUT	Chloride, 24 HR, U	1	82436	Yes	Yes, (order CLU)
POUT	Phosphorus, 24 HR, U	1	84105	Yes	Yes, (order POU)
SULFT	Sulfate, 24 HR, U	1	84392	Yes	Yes, (order SULFU)
CITT	Citrate Excretion, 24 HR, U	1	82507	Yes	Yes, (order CITR)
OXUT	Oxalate, 24 HR, U	1	83945	Yes	Yes, (order OXU)
UPHT	pH, 24 HR, U	1	83986	Yes	Yes, (order PHU_)
URICT	Uric Acid, 24 HR, U	1	84560	Yes	Yes, (order URCU)
CTUT	Creatinine, 24 HR, U	1	82570	Yes	Yes, (order CTU)
OSMUT	Osmolality, 24 HR, U	1	83935	Yes	Yes, (order UOSMU)
AMMT	Ammonium, 24 HR, U	1	82140	Yes	Yes, (order AMMO)
UNT	Urea Nitrogen, 24 HR, U	1	84540	Yes	No
PCRUT	Protein Catabolic Rate, 24 HR, U	1	Calcu	Yes	No
DEMO9	Patient Demographics			Yes	No

CPT Code Information:

- 82340-Calcium
- 82436-Chloride
- 82507-Citrate excretion
- 82570-Creatinine
- 83735-Magnesium
- 83935-Osmolality
- 83945-Oxalate
- 83986-pH
- 84105-Phosphorus
- 84133-Potassium
- 84300-Sodium
- 84392-Sulfate

84560-Uric acid
82140-Ammonium
84540-Urea Nitrogen

Reference Values:

SUPERSATURATION REFERENCE MEANS (Delta G: DG)

Men:
Calcium oxalate: 1.89 DG
Brushite: 0.46 DG
Hydroxyapatite: 4.19 DG
Uric acid: 1.18 DG

Women:
Calcium oxalate: 1.59 DG
Brushite: -0.11 DG
Hydroxyapatite: 3.62 DG
Uric acid: 0.89 DG

OSMOLALITY, 24 HOUR, URINE
0-11 months: 50-750 mOsm/kg
> or =12 months: 150-1,150 mOsm/kg

pH, 24 HR, U
4.5-8.0

SODIUM, 24 HOUR, URINE
> or =18 years: 22-328 mmol/24 h
Reference values have not been established for patients who are younger than 18 years.

POTASSIUM, 24 HOUR, URINE
> or =18 years: 16-105 mmol/24 h
Reference values have not been established for patients who are younger than 18 years.

CALCIUM, 24 HOUR, URINE
Males: <250 mg/24 h
Females: <200 mg/24 h
Reference values have not been established for patients who are younger than 18 years.

MAGNESIUM, 24 HOUR URINE
> or =18 years: 51-269 mg/24 h
Reference values have not been established for patients who are younger than 18 years.

CHLORIDE, 24 HOUR URINE
> or =18 years: 34-286 mmol/24 h

Reference values have not been established for patients who are younger than 18 years.

PHOSPHORUS, 24 HOUR, URINE

> or =18 years: 226-1,797 mg/24 h

Reference values have not been established for patients who are younger than 18 years of.

SULFATE, 24 HOUR, URINE

7-47 mmol/24 h

CITRATE EXCRETION, 24 HOUR, URINE

0-19 years: Not established

20 years: 150-1,191 mg/24 h

21 years: 157-1,191 mg/24 h

22 years: 164-1,191 mg/24 h

23 years: 171-1,191 mg/24 h

24 years: 178-1,191 mg/24 h

25 years: 186-1,191 mg/24 h

26 years: 193-1,191 mg/24 h

27 years: 200-1,191 mg/24 h

28 years: 207-1,191 mg/24 h

29 years: 214-1,191 mg/24 h

30 years: 221-1,191 mg/24 h

31 years: 228-1,191 mg/24 h

32 years: 235-1,191 mg/24 h

33 years: 242-1,191 mg/24 h

34 years: 250-1,191 mg/24 h

35 years: 257-1,191 mg/24 h

36 years: 264-1,191 mg/24 h

37 years: 271-1,191 mg/24 h

38 years: 278-1,191 mg/24 h

39 years: 285-1,191 mg/24 h

40 years: 292-1,191 mg/24 h

41 years: 299-1,191 mg/24 h

42 years: 306-1,191 mg/24 h

43 years: 314-1,191 mg/24 h

44 years: 321-1,191 mg/24 h

45 years: 328-1,191 mg/24 h

46 years: 335-1,191 mg/24 h

47 years: 342-1,191 mg/24 h

48 years: 349-1,191 mg/24 h

49 years: 356-1,191 mg/24 h

50 years: 363-1,191 mg/24 h

51 years: 370-1,191 mg/24 h

52 years: 378-1,191 mg/24 h

53 years: 385-1,191 mg/24 h
54 years: 392-1,191 mg/24 h
55 years: 399-1,191 mg/24 h
56 years: 406-1,191 mg/24 h
57 years: 413-1,191 mg/24 h
58 years: 420-1,191 mg/24 h
59 years: 427-1,191 mg/24 h
60 years: 434-1,191 mg/24 h
>60 years: Not established

OXALATE, 24 HOUR, URINE
0.11-0.46 mmol/24 h
9.7-40.5 mg/24 h

URIC ACID, 24 HOUR, URINE
Male: > or =18 years: 200-1,000 mg/24 h
Female: > or =18 years: 250-750 mg/24 h
Reference values have not been established for patients who are younger than 18 years.

CREATININE, 24 HOUR, URINE
Male: > or =18 years: 930-2,955 mg/24 h
Female: > or =18 years: 603-1,783 mg/24 h
Reference values have not been established for patients who are younger than 18 years.

AMMONIUM, 24 HOUR, URINE
15-56 mmol/24 h
Reference values have not been established for patients who are younger than 18 years or older than 77 years.

UREA NITROGEN, 24 HOUR, URINE
> or =18 years: 7-42 g/24 h
Reference values have not been established for patients who are younger than 18 years.

PROTEIN CATABOLIC RATE, 24 HOUR, URINE
56-125 g/24 h